



AGAT

Laboratories



**Environmental
Seminars**

PROUDLY  CANADIAN

Strengthen Your Teams and Projects Through Insightful Technical Seminars

In the evolving environmental sector, get the knowledge to stay ahead of changing regulations and advancing analytical methods which impact project timelines, costs, and compliance.

AGAT Laboratories' technical seminars are designed to support environmental professionals by providing practical knowledge your team can apply immediately. Learn directly from technical experts who help support complex projects to better outcomes every day.

Whether hosted at an AGAT facility or at your workplace, you'll get:

- **Expert-Led Sessions**
Learn directly from AGAT's senior subject matter experts and technical specialists with real-world project experience across North America.
- **Industry-Relevant Content**
Explore current regulations, analytical methodologies, and field-to-lab best practices.
- **Actionable Knowledge**
Gain clear insights that improve sampling, data interpretation, and regulatory confidence.



What We Do

Since 1979, AGAT Laboratories has been empowering clients with trustworthy data and unmatched client relations. We support clients with precise analytical testing in meaningful projects from Environmental to Industrial to Energy and more. With a full-service approach, and over 40 specialized coast-to-coast laboratories, we're offering solutions to client challenges throughout North America and beyond.

Providing **Service Beyond Analysis**, we work in partnership with you. You'll get the care of a dedicated Client Service Representative and experts in science you can trust for routine, specialized, and custom testing.

Leveraging a 45-year history, we look forward to welcoming new labs, clients, and developments to help us change the world sample by sample.

AGAT Laboratories is accredited, certified, or licensed for specific tests by the following organizations or standards::

- The Standards Council of Canada (SCC)
- The Canadian Association for Laboratory Accreditation (CALA)
- SAI Global
- ISO/IEC 17025:2017
- APEGA Certificate (Calgary)

For more accreditations, please visit:



[agatlabs.com/accreditation](https://www.agatlabs.com/accreditation)

PROUDLY  CANADIAN

A proudly Canadian business, AGAT Laboratories continues to invest in the interests of Canada's communities. We value and foster continued development, diversification, and innovation in Canadian science and technology to improve Canada's analytical laboratory landscape and crucial industries which support local and nationwide development.

Seminars

Access some of the industry's leading scientific minds as they share knowledge and expertise across a series of seminars. These sessions support our industry peers and clients as an opportunity to learn, connect, and discuss a variety of specialist topics related to the environmental sector and analytical science. Seminars vary from beginner-level lessons for junior specialists to advanced thought-provoking discussions for experienced professionals.

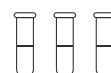
Seminar Level:



Beginner



Intermediate



Advanced

Introduction to Environmental Sampling

Get an introduction to the requirements of environmental sampling. Designed for junior field technicians, participants will learn the difference between field and laboratory filtration, while exploring other topics such as preservation types, required sample volumes, proper temperature and containers, and potential problems experienced in sampling.



Understanding WebEARTH: AGAT's Online Data Management System

Learn how to save time when dealing with large volumes of data in AGAT's proprietary online data management system, WebEARTH. See the software in action with real client data in this interactive presentation.



Summa Canisters: Air Analysis

Explore different versions of air quality sampling and gain insights into the benefits of using a Summa Canister including testing and sampling methods that coincide with Summa analysis.



Seminars

Method Detection Limits: Working with Regulations

Learn how laboratory detection limits are determined in conjunction with recommended detection limits set by regional regulating governments, as we explore the difference between Method Detection Limits (MDLs), Reliable Detection Limits (RDLs), and Practical Quantitation Limits (PQLs).



Understanding Laboratory Quality Assurance and Control

Gain a deeper understanding of quality assurance and control with plain language explanations for quality terminology. Use what you learn to interpret quality assurance and control reports into useful analytical data.



Petroleum Hydrocarbon Analysis: PIRI vs. Canada-Wide Standard

Explore the difference between the Atlantic PIRI and the CCME Canada-Wide Standard (CWS) approaches for the quantification of petroleum hydrocarbons using real world samples analyzed by both methodologies.



Canada Only



Understanding Ontario Regulation 153/04: Sampling and Testing

Learn industry best practices to collect soil and water for a Record of Site Condition (RSC) under O. Reg. 153/04. Then use what you learn in the field to save time and avoid additional costs associated with resampling.



Canada Only



Seminars

Ontario Excess Soil Regulation 406/19: A Laboratory Perspective

Get a closer look at excess soil regulations in Ontario under O. Reg. 406/19 as we explore how regulatory requirements affect the laboratory.

 Canada Only



Drilling Waste: The Dirty Facts

Learn about AGAT Laboratories' drilling waste packages and the implications of analysis in the field. We'll also explore the Alberta Energy Regulator (AER) Directive 050 guidelines and discuss typical turnaround and sample preparation time.

 Canada Only



Petroleum Hydrocarbons in Soil for Western Canada

Learn how to read a chromatogram from analysis of petroleum hydrocarbons (PHCs) in soil. Participants will also gain a greater understanding of laboratory procedures used to extract and quantify volatile and semi-volatile PHCs, including an overview of sample requirements and naming conventions per province.

 Canada Only



Detailed Salinity: The Complete Process

Learn the complete process of detailed salinity analysis which you can put into practice. This session covers applications, guidelines, sample preparation, and instrumentation.



Seminars

Enhanced Environmental Forensics

Explore techniques that help determine release time, source, and type of contamination in environments. Participants will also learn routine techniques and look at innovative technology that's moving environmental forensics forward.



Understanding Dioxins and Furans

Get a closer look at dioxins and furans analysis using high-resolution mass spectrometry (HRMS) including exploration of potential sources of contamination. Participants will also learn how to optimize methods for analyzing multiple complex matrices in short turnaround times.



Understanding the Importance of Ultra-trace Analysis

Explore the importance of ultra-trace analysis with a look at high resolution gas chromatography-mass spectrometry (GC-MS) with dioxins and furans, polycyclic aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs). Plus learn how to spot contamination in ultra-trace toxicology.



Evolving State of Per- and Polyfluoroalkyl Substances (PFAS)

Gain insights into the chemistry, types, sources, and effects of PFAS in the environment as we explore the evolution of PFAS methodology and expanding guidelines.



Our Technical Experts



Graham Spray, M.Sc., P.Geo., Chief Technical Officer

Graham Spray, M.Sc., P.Geo., is AGAT's Chief Technical Officer and a leading force behind the company's research and development programs. With extensive experience in geological analysis and laboratory investigation, he oversees initiatives that keep AGAT at the forefront of analytical science.

Graham guides the development of new methods, the refinement of existing procedures, and the creation of tools that improve accuracy, efficiency, and problem solving across disciplines. He also plays a key role in advancing AGAT's technical leadership by sharing new insights through industry presentations, collaborative projects, and scientific communication. Drawing from a strong background in geoscience and applied research, Graham ensures AGAT's teams remain innovative, informed, and equipped to address evolving challenges in environmental and resource-based projects.

Marc Paquet, M.Sc., Senior Scientific Advisor

Marc Paquet, is a leading expert in environmental chemistry with more than 35 years of experience specializing in petroleum hydrocarbon contamination and complex site investigations. His background spans analytical laboratories, environmental consulting, and research, giving him a rare ability to interpret GC chromatograms, differentiate contaminant sources, and assess the age of petroleum impacts using both analytical data and historical context.

Marc has served as an expert in legal cases involving oil spills and is frequently consulted for technical interpretation, data validation, and guidance on regulatory expectations. He is deeply involved in environmental professional associations, contributes to technical committees, and is a recognized conference speaker. Marc also pioneered TraceNet, an innovative digital platform that modernized soil tracking and compliance in Canada.



Our Technical Experts



Inga Kuzmina, M.Eng. (Chem), Senior Scientific Advisor

Inga Kuzmina, is an expert in organic analytical chemistry and petroleum product characterization. With extensive experience in method development, quality oversight, and advanced instrumentation, she brings deep scientific insight to AGAT's Organics Laboratory in Mississauga. Her background includes leading an analytical research laboratory in Ukraine where she developed and tested next-generation petroleum products and provided technical consultation for industry partners.

Inga's expertise spans GC and LC analytical systems, including GC/MS, GC/ECD, GC/FID, HPLC, and purge and trap technologies. She has contributed to the refinement of CCME Cold Shake methods for soil fractions and is recognized for optimizing laboratory processes to improve efficiency and data quality. Her leadership strengthens AGAT's ability to deliver reliable, defensible organic chemistry results.

Dr. Robert Hamel, Ph.D., Vice President of Operations – Ontario & Atlantic

Dr. Robert Hamel is a senior laboratory operations leader with deep expertise in environmental, life sciences, and ultra-trace analytical testing. With advanced training in biochemistry, he brings deep technical knowledge across environmental, forensic, clinical toxicology, and microbiology testing disciplines. His expertise includes the oversight of complex analytical laboratories, development and implementation of advanced methods such as PFAS and high-resolution mass spectrometry, and leadership within stringent regulatory frameworks including ISO 17025, ISO 15189, Health Canada, and FDA requirements.

Robert is recognized for his ability to translate scientific rigor into efficient, high-performing laboratory operations while maintaining uncompromising standards for data quality and safety. His background also includes contributions to industry advisory groups, reflecting his role as a trusted technical authority within the analytical sciences community.



Our Technical Experts

Jarrold Roberts, B.Tech., Operations Manager



Jarrold Roberts is a senior environmental manager and mobile laboratory services specialist, with more than two decades of experience applying advanced organic chemistry to time-critical environmental and spill response operations. His expertise centers on organic analysis and mass spectrometry, supporting rapid field-based decision-making during emergency response, spill characterization, and remedial investigations. Jarrold's background combines deep technical knowledge with practical experience deploying laboratory capabilities in dynamic, high-pressure environments.

Jarrold is recognized for optimizing analytical operations through efficient method development, instrumentation configuration, and streamlined laboratory workflows. He plays a key role in emergency response coordination by delivering fast, defensible data, refining analytical approaches for speed and reliability, and translating complex results into actionable information. Known for his pragmatic problem-solving and client-focused mindset, Jarrold brings both scientific rigor and operational efficiency to complex environmental response programs.

Dr. Andrew Kingston, Ph.D., Geosciences Lab Manager

Andrew Kingston is a specialist in stable isotope geochemistry with more than 20 years of experience applying a wide range of isotopic techniques to complex scientific and environmental questions. His expertise is grounded in strong analytical systems and spans stable isotope applications across hydrocarbon geochemistry, environmental assessment, and biogeochemical research.

Andrew holds a Ph.D. in stable isotope geochemistry, along with undergraduate and graduate degrees in geology and geochemistry. His background includes academic research, international laboratory leadership, and scientific advisory work focused on environmental and applied geochemistry. He has contributed to multidisciplinary projects spanning applied environmental geochemistry, atmospheric chemistry, paleoenvironmental studies, and ecosystem science, and is recognized for developing and optimizing analytical methods that support clear, science-based environmental insight.



Our Technical Experts



Dr. Fabien Aulagnier, Ph.D., Senior Scientific Advisor

Dr. Fabien Aulagnier, an expert in inorganic chemistry and laboratory quality systems, recognized for his technical depth and leadership in ISO 17025 environments. At AGAT's Inorganics Laboratory in Saint Laurent, Fabien guides a multidisciplinary team and oversees analytical operations with a strong commitment to delivering service that goes beyond analysis. His expertise includes method development, process optimization, and sustaining high-performance laboratory systems that support reliable and defensible data.

Fabien's background spans postdoctoral research with Environment Canada, where he studied contaminant behavior in agricultural and polar environments, as well as more than a decade in research and development and laboratory supervision. His technical insight and strategic leadership help clients meet environmental compliance with confidence.

Jada Benjamin, B.Sc., General Manager of Alberta Environmental

Jada Benjamin, is a recognized expert in inorganic chemistry and environmental laboratory science, known for her technical depth and her ability to strengthen complex testing programs with precision and clarity. With more than 20 years in environmental analysis, she has become a trusted authority in method development, validation, and regulatory compliance. Her work ensures clients receive reliable and defensible data across diverse environmental matrices.

Jada is respected for her strategic thinking, scientific rigor, and talent for optimizing workflows and laboratory systems to meet evolving regulatory and industry requirements. In her role leading AGAT's Environmental Services in Alberta, she champions a people-first and insight-driven approach that enhances service quality, empowers teams, and supports the continued advancement of environmental testing.



Our Technical Experts



Amanjot Bhela, M.Sc., C.Chem., Laboratory Operations Manager

Amanjot Bhela, is a recognized expert in laboratory operations, quality systems, and environmental analytical science. With more than 12 years of experience in the environmental industry, Amanjot is known for her strong command of Canadian regulatory requirements, Good Laboratory Practices, and the technical rigor required to generate reliable and defensible data. Her expertise spans method development, quality control oversight, investigation of out-of-spec results, and the creation of Standard Operating Procedures that support laboratory accreditation.

A certified 5S aviator, she brings a deep commitment to operational excellence through process optimization, workflow organization, and innovation. At AGAT, Amanjot's technical insight and problem-solving mindset strengthen client confidence and support the continuous advancement of Ontario's Environmental Laboratories.

Dr. Egemen Aydin, Ph.D., Senior Scientific Advisor

Dr. Egemen Aydin, is an internationally published expert in emerging contaminants and advanced LC-MS analysis, known for his depth of knowledge in method development, unknown identification, and quantitative analysis of complex organic compounds. With 15 years of experience in environmental sciences and engineering, he has developed validated methods for pharmaceuticals, hormones, illicit drugs, PFAS, pesticides, and microbial metabolites across drinking water, wastewater, surface water, and sediment.

Egemen has led multiple research programs and authored 22 peer-reviewed publications that advance global understanding of contaminant behavior. At AGAT, he develops specialized analytical methods, prepares accreditation-ready documentation, and provides scientific guidance to operations. His expertise strengthens AGAT's ability to support clients with precise, defensible, and innovative solutions in environmental chemistry.



Our Technical Experts



Desiree Hui, B.Sc., Director of Specialty Chemistry

Desiree Hui, is a highly regarded specialist in high-resolution mass spectrometry and complex organic contaminant analysis. With more than 18 years of experience across environmental and petroleum laboratories, she is recognized for her deep expertise in EPA Methods 1613 and 1668 and her ability to develop, optimize, and validate sophisticated methods for dioxins, PCBs, and other trace-level contaminants. Her background includes leading specialty clean lab operations, managing fuels and lubricants instrumentation programs, and supporting clients with technical guidance from production through refined end products.

Desiree's skill in instrument maintenance, quality oversight, and proficiency testing, including achieving ISO 17043 accreditation for a petroleum quality program, positions her as a trusted expert within AGAT's Specialty Chemistry team.

Helmi Aboulsoud, M.Sc., Lab Supervisor

Helmi Aboulsoud, is an accomplished analytical chemist specializing in advanced mass spectrometry and method development for complex environmental and toxicological testing. With more than 15 years of experience across regulated laboratories, he has developed and validated high-impact EPA methods, including 1613 for dioxins and furans, 1668C for PCBs, and 1633 for PFAS, as well as extensive multi-residue pesticide methods in challenging matrices such as water, soil, food, serum, and tissue.

Helmi is skilled in LC-MS/MS, GC-MS/MS, ICP-MS, Orbitrap HRMS, and automated SPE, and is recognized for his strong grounding in quality systems, accreditation compliance, and instrument performance. His multidisciplinary background spans food, environmental, clinical, and pharmaceutical analysis, supported by peer-reviewed publications and leadership in training and laboratory supervision.



Our Technical Experts



Theresa Stephenson, Manager of Technical Services

Theresa Stephenson is one of AGAT's leading experts in air sampling and Canadian regulatory requirements, recognized industry-wide for her technical accuracy and deep understanding of environmental laboratory processes. With more than 30 years immersed in air quality programs, she brings exceptional insight into sampling protocols, regulatory compliance, and the interpretation of complex analytical results.

Theresa is known for her ability to translate scientific detail into clear, reliable guidance that empowers clients to make confident decisions. Her expertise spans Air and HRMS programs, quality control, and specialized air sampling equipment, making her a trusted resource for both routine and advanced environmental testing needs. At AGAT, she continues to elevate Air Services through expert mentorship, technical leadership, and a people-first approach to service excellence.

Pamela Andres, B.Sc., Lab Supervisor

Pamela Andres, is an accomplished forensic chemistry specialist with extensive experience in analytical instrumentation, complex sample processing, and data quality evaluation. With academic training in both chemical engineering and petroleum technology, she brings a strong technical foundation to the interpretation of forensic evidence and the development of robust analytical workflows. Her background includes more than a decade leading research and development in chemical manufacturing, where she advanced product formulations, optimized material processes, and refined testing methodologies.

Pamela is skilled in method validation, internal quality auditing, and the creation of precise documentation that meets stringent regulatory and accreditation standards. A certified C-NRPP radon measurement professional, she is recognized for her meticulous approach, problem solving, and commitment to scientifically defensible results.





Customize Your Learning Experience

AGAT's technical seminars are designed to meet you where you work in a format that fits your team's needs. We've developed different delivery options to deliver high-impact learning that works around you, your team, and different levels of experience.

- **Learn at AGAT**

Bring your team to one of our laboratories for an immersive, expert-led session.

- **Host Us**

We'll deliver seminars in-person at your office, project location, or training facility.

- **From Beginner Lessons to Advanced Sessions**

Choose a seminar that's suitable for your team from junior-level lessons to advanced and mixed-experience sessions.

- **Pre-Designed or Custom-Built**

Get a pre-designed seminar based on common industry challenges or collaborate with us to create custom-built sessions tailored to your projects, region, or regulatory environment.

We're supporting well-informed teams to:

- Reduce rework and costly resampling
- Improve data quality and interpretation
- Strengthen regulatory compliance
- Build confidence when working with clients and regulators

An aerial photograph showing a dense green forest in the lower half and a body of water in the upper half. The text is overlaid on the water portion.

Book a Session

Schedule an in-person or online seminar for your team through your AGAT representative.

Looking for More?

Let's talk about building you a custom technical session. Please contact your representative to learn more.

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